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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR _	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/825,775	04/04/2001	Jason Alexander Trachewsky	42140/RJP/E264	3985
23363	7590 06/15/2004		EXAMINER	
CHRISTIE, PARKER & HALE, LLP			HA, DAC V	
PO BOX 706 PASADENA	os , CA 91109-7068		ART UNIT	PAPER NUMBER
	•		2634	<i>(</i> 2)
			DATE MAILED: 06/15/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)				
0.00	09/825,775	TRACHEWSKY ET AL.				
Office Action Summary	Examiner	Art Unit (
	Dac V. Ha	2634				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDON	imely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status		,				
1) Responsive to communication(s) filed on 04 Ap	oril 2001.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) ⊠ Claim(s) 1-8 is/are objected to. 8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 31 August 2001 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer of the correction of the correction of the original transfer of the correction of the correctio	a) accepted or b) objected drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicative documents have been received in Received. (PCT Rule 17.2(a)).	tion No red in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8. 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:					

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DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

- 2. Figures 1a-1d should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. Applicant is required to submit a proposed drawing correction in reply to this

 Office action. However, formal correction of the noted defect may be deferred until after
 the examiner has considered the proposed drawing correction. Failure to timely submit
 the proposed drawing correction will result in the abandonment of the application.
- The disclosure is objected to because of the following informalities:
 The specification is replete with double spacing between words (i.e., page 2,
 lines 8, 9). Applicants are required to find and correct all of such problem.
 Appropriate correction is required.
- 5. Claims 1-8 are objected to because of the following informalities:

Claims 1-8 are replete with double spacing between words (i.e., claim 1, line 5).

Applicants are required to find and correct all of such problem.

Claim 1, line 7, the recitation "correlation sequence low-pass filtered signal" should be made consistent with the recitation "the correlation sequence" on lines 8 and 9-10.

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Claim 4, lines 1-2, the recitation "the time-reversed complex-conjugated end of frame symbol sequence" should be made consistent with the recitation "a time-reversed, complex-conjugated end of frame symbol sequence" on line 2 of claim 3.

Claim 5, lines 1-2, the recitation "the time-reversed complex-conjugated end of frame symbol sequence" should be made consistent with the recitation "a time-reversed, complex-conjugated end of frame symbol sequence" on line 2 of claim 3.

Claim 6, the recitation "of each operand" and "a plurality of log operands" on line 3 should be clarified (i.e., "of each low-pass filter correlation signal operand" and "a plurality of low-pass filtered correlation signal log operands") since there are more than one parameter recited in the step of multiplying of claim 1 (i.e., the "low-pass filtered correlation signal" and "a fixed predetermined threshold").

Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Allowable Subject Matter

6. Claims 1-8 are allowed.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Shiraishi et al. (US 6,625,239) disclose Circuit For Capturing Frame Sync Signal In Receiver.

Rouphael et al. (US 6,301,291) disclose Pilot Symbol Assisted Modulatin And Demodulation In Wireless Communication Systems.

Matsuoka et al. (US 5,809,009) disclose Demodulator Apparatus For Digital
Radio Communication Receiver Providing Pseudo-Coherent Quadrature Demodulation
Based On Periodic Estimation Of Frequency Offset.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 703-306-5536.

The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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